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George Lackman,
Commissioner of Agriculture
State of Montana
Helena, Montana 59601

B. E. Ginther
Chemist
Agriculture Experiment Station
Bozeman, Montana 59715

COMMERCIAL FERTILIZER REPORT

Issued by
The Department of Agriculture, State of Montana, Helena, Montana
and
The Agricultural Experiment Station, Montana State University, Bozeman, Montana

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
AGRO SUPPLY 3440 Winchell Lane Billings, Mt 59102								
Agro								
0-0-60	Hardin	3-154					60	61.8
CF INDUSTRIES, INC. 100 South Wacker Drive Chicago, Illinois 60606								
CF Industries								
0-0-50	Kalispell	3-1291					50	49.6
0-0-60	Power	3-1181					60	60.2
0-0-60	Power	3-1326				1.2	60	59.4
0-45-0	Denton	3-1358			45	45.6		
0-45-0	Lewistown	3-1056			45	45.6		
0-45-0	Kalispell	3-1073			45	45.8		
11-48-0	Dutton	3-1366	11	11.2	48	48.5		
11-48-0	Richey	3-255	11	11.5	48	48.3		
11-48-0	Great Falls	3-1104	11	11.6	48	49.5		
11-48-0	Poplar	3-139	11	11.1	48	49.6		
11-55-0	Lewistown	3-1053	11	11.6	55	55.4		
11-55-0	Great Falls	3-1103	11	11.2	55	55.8		
16-20-0	Kalispell	3-1072	16	17.0	20	19.9		
16-20-0	Power	3-1325	16	16.3	20	21.0		
16-20-0	Kalispell	3-1292	16	16.8	20	20.8		
16-20-0	Power	3-1182	16	17.2	20	19.5		
16-20-0	Chinook	3-1082	16	16.2	20	21.5		
18-46-0	Molt	3-380	18	18.5	46	46.3		
18-46-0	Dutton	3-1367	18	18.4	46	46		
18-46-0	Lewistown	3-1055	18	18.8	46	46.4		
18-46-0	Kalispell	3-1070	18	18.4	46	45.8		

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CF Industries (cont.)								
18-46-0	Power	3-1327	18	18.6	46	46.8		
18-46-0	Fairfield	3-1148	18	18.3	46	46.2		
18-46-0	Dutton	3-1180	18	18.7	46	46.7		
18-46-0	Kalispell	3-1290	18	18.1	46	47.1		
18-46-0	Power	3-1183	18	18.6	46	46.0		
18-46-0	Baker	3-90	18	18.7	46	47.5		
18-46-0	Chinook	3-1083	18	18.7	46	48.4		
18-46-0	Denton	3-1357	18	18.3	46	46.6		
18-46-0	Great Falls	3-1105	18	18.9	46	47.8		
21-0-0	Kalispell	3-1293	21	21.0				
34-0-0	Kalispell	3-1294	34	33.9				
34-0-0	Lewistown	3-1203	34	34.1				
34-0-0	Chester	3-1084	34	34.4				
34-0-0	Great Falls	3-1106	34	34.1				
34-0-0	Valier	3-1097	34	34.5				
34-0-0	Lewistown	3-1054	34	34.3				
34-0-0	Kalispell	3-1071	34	34.4				
34-0-0	Power	3-1324	34	33.9				
CHEVRON CHEMICAL COMPANY Ortho Division 940 Hensley Street Richmond, California 94804								
Ortho								
18-46-0	Stevensville	3-1107	18	18.0	46	46.8		
11-48-0	Hamilton	3-1212	11	10.9	48	47.8		
16-20-0	Hamilton	3-1214	16	16.1	20	21.8		
16-16-16	Ronan	3-1220	16	16.1	16	16.1	16	16.6
27-12-0	Dillon	3-1352	27	27.7	12	10.9		
27-12-0	Dillon	3-1113	27	27.7	12	12.0		
27-12-0	Hamilton	3-1213	27	27.7	12	12.2		
27-12-0	Dillon	3-1111	27	27.4	12	12.4		
27-12-0	Dillon	3-1186	27	27.9	12	12.0		
34-0-0	Carter	3-1125	34	34.1				
34-0-0	Kalispell	3-1165	34	34.1				
34-0-0	Kalispell	3-1065	34	34.0				
34-0-0	Hamilton	3-1368	34	34.1				
34-0-0	Kalispell	3-1343	34	34.1				
34-0-0	Dillon	3-1112	34	34.0				
34-0-0	Belgrade	3-1120	34	34.4				

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NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
COLLIER CARBON & CHEMICAL CORPORATION 461 South Boylston Street Los Angeles, California 90017								
Colliers								
34-0-0	Brady	3-1145	34	34.4				
COMINCO AMERICAL INC. West 818 Riverside Avenue Spokane, Washington 99201								
Elephant								
0-0-60	Bridger	3-163					60	61.8
0-0-60	Ronan	3-1167					60	60.2
0-0-60	Great Falls	3-1102					60	61.8
0-0-60	Ronan	3-1076					60	61.1
0-0-60	Roberts	3-35					60	61.8
0-0-60	Manhattan	3-1119					60	61.2
0-45-0	Baker	3-168			45	45.9		
0-46-0	Baker	3-103			46	46.6		
0-46-0	Baker	3-92		2.8	46	46.6		
0-46-0	Baker	3-8			46	46.3		
0-46-0	Baker	3-327			46	44.7		
16-20-0	Baker	3-104	16	16.3	20	20.2		
16-20-0	Brady	3-1235	16	16.2	20	22.0		
11-48-0	Brady	3-1236	11	11.0	48	48.7		
11-55-0	Shelby	3-1210	11	11.8	55	56.2		
11-55-0	Lewistown	3-1202	11	11.1	55	55.5		
11-55-0	Baker	3-171	11	11.6	55	55.5		
11-55-0	Carter	3-1124	11	11.0	55	56.2		
11-55-0	Kalispell	3-1164	11	11.1	55	55.8		
11-55-0	Ronan	3-1168	11	11.2	55	55.9		
11-55-0	Ronan	3-1074	11	11.5	55	56.4		
11-55-0	Ronan	3-1068	11	11.3	55	56.0		
11-55-0	Baker	3-9	11	11.4	55	55.4		
11-55-0	Moccasin	3-1049	11	11.4	55	55.6		
11-55-0	Hysham	3-350	11	11.3	55	55.3		
11-55-0	Fort Benton	3-1354	11	11.4	55	55.3		
11-55-0	Glendive	3-339	11	11.5	55	55.5		
11-55-0	Carter	3-1337	11	11.3	55	54.9		
11-55-0	Carter	3-1355	11	11.3	55	54.9		
11-55-0	Highwood	3-1360	11	11.5	55.	55.2		
11-55-0	Baker	3-328	11	11.5	55	55.3		
11-55-0	Sidney	3-306	11	11.3	55	55.1		
11-55-0	Belgrade	3-1351	11	11.5	55	55.01		
11-55-0	Stanford	3-1339	11	11.0	55	55.6		

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Cominco American (cont.)								
11-55-0	Sidney	3-258	11	11.5	55	55.5		
11-55-0	Baker	3-93	11	11.3	55	56.0		
11-55-0	Penroy	3-1091	11	11.2	55	55.8		
18-46-0	Brady	3-1234	18	18.1	46	46.3		
18-46-0	Belgrade	3-1193	18	18.3	46	48.7		
18-46-0	Lewistown	3-1200	18	18.5	46	47.3		
18-46-0	Baker	3-170	18	19.0	46	47.5		
18-46-0	Bridger	3-162	18	18.3	46	48.0		
18-46-0	Kalispell	3-1163	18	18.0	46	48.3		
18-46-0	Ronan	3-1169	18	18.3	46	46.1		
18-46-0	Lewistown	3-1044	18	18.4	46	47.8		
18-46-0	Baker	3-7	18	18.3	46	47.6		
18-46-0	Wibaux	3-335	18	18.4	46	46.2		
18-46-0	Baker	3-330	18	17.9	46	47.0		
18-46-0	Stanford	3-1340	18	18.3	46	47.0		
18-46-0	Sidney	3-191	18	18.5	46	47.0		
18-46-0	Penroy	3-1094	18	18.3	46	47.5		
28-14-0	Baker	3-91	28	26.9	14	18.6		
21-0-0	Missoula	3-1160	21	21.1				
21-0-0	Belgrade	3-1199	21	21.2				
21-0-0	Hardin	3-158	21	21.7				
21-0-0	Ronan	3-1166	21	21.2				
21-0-0	Ronan	3-1069	21	20.9				
21-0-0	Great Falls	3-1001	21	21.2				
21-0-0	Wibaux	3-336	21	21.4				
21-0-0	Kalispell	3-1345	21	21.0				
21-0-0	Hamilton	3-1353	21	21.0				
21-0-0	Manhattan	3-1117	21	21.6				
21-0-0	Hamilton	3-1217	21	21.0				
34-0-0	Baker	3-169	34	34.2				
34-0-0	Baker	3-6	34	34.0				
34-0-0	Baker	3-329	34	34.3				
34-0-0	Sidney	3-190	34	33.2				
34-0-0	Baker	3-88	34	34.0				
34-0-0	Sidney	3-137	34	34.0				
34-0-0	Ronan	3-1077	34	34.8				

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			Claimed	Found	Claimed	Found	Claimed	Found
(Dealer/Distributor not Manufacturer/Registrant)								
CON AGRA, INC. P.O. Box 2548 Great Falls, Montana 59401								
0-0-60	Ryegate	3-318					60	61.0
0-45-0	Hardin	3-156			45	45.8		
0-45-0	Big Timber	3-133			45	46.2		
0-45-0	Ryegate	3-320			45	39.3		
11-48-0	Harlowton	3-118	11	11.7	48	49.4		
11-55-0	Big Timber	3-132	11	11.8	55	56.1		
18-46-0	Hardin	3-157	18	18.5	46	47.8		
18-46-0	Big Timber	3-131	18	18.1	46	46.9		
18-46-0	Moccasin	3-1273	18	18.2	46	46.2		
18-46-0	Ryegate	3-322	18	18.2	46	46.5		
16-20-0	Hardin	3-153	16	16.3	20	21.2		
16-20-0	Big Timber	3-130	16	15.9	20	20.9		
16-20-0	Ryegate	3-321	16	16.3	20	20.3		
25-25-0	Livingston	3-129	25	22.3	25	35.8		
27-14-0	White Sulphur Springs	3-122	27	pass	14	10.5		
27-14-0	White Sulphur Springs	3-177	27	28.0	14	13.9		
30-10-0	Livingston	3-127	30	27.5	10	20.1		
30-10-0	Livingston	3-176	30	33.3	10	5.1		
33.5-0-0	Hardin	3-155	33.5	33.8				
34-0-0	Livingston	3-313	34	34.2				
34-0-0	Livingston	3-128	34	34.6				
34-0-0	Ryegate	3-319	34	34.1				
34-0-0	Hysham	3-349	34	34.0				
J J CROFT ELEVATOR Roberts, Montana 59070								
18-46-0	Roberts	3-36	18	18.1	46	46.0		
EXXON CHEMICAL CO. 1333 W. Loop South Houston, Texas 77027								
Engro 15-15-15	Laurel	3-376	15	15.4	15	15.2	15	14.9
0-45-0	Laurel	3-375			45	45.8		
11-55-0	Belgrade	3-1369	11	11.3	55	55.3		
11-48-0	Laurel	3-355	11	11.1	48	47.9		

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Exxon Chemical Co. (cont.)								
11-48-0	Laurel	3-374	11	11.1	48	48.2		
11-48-0	Havre	3-1138	11	11.0	48	48.2		
11-48-0	Great Falls	3-1004	11	12	48	45.5		
16-20-0	Laurel	3-352	16	16.0	20	21.0		
16-20-0	Billings	3-378	16	16.0	20	20.7		
16-20-0	Belgrade	3-1349	16	16.3	20	20.5		
16-20-0	Great Falls	3-1006	16	16.5	20	20.7		
18-46-0	Brady	3-1365	18	18.4	46	46.2		
18-46-0	Great Falls	3-1005	18	18.5	46	47.2		
18-46-0	Belgrade	3-1350	18	18.6	46	46.5		
18-46-0	Laurel	3-351	18	18.2	46	46.3		
18-46-0	Billings	3-377	18	18.0	46	46.4		
18-46-0	Fairfield	3-1328	18	18.5	46	47.2		
18-46-0	Ronan	3-1221	18	18.1	46	46.9		
18-46-0	Belgrade	3-1194	18	18.7	46	47.9		
18-46-0	Moore	3-1205	18	18.3	46	46.5		
18-46-0	Havre	3-1140	18	18.3	46	48.5		
18-46-0	Conrad	3-1142	18	18.1	46	48.2		
18-46-0	Dutton	3-1146	18	18.7	46	47.0		
18-46-0	Fairfield	3-1150	18	18.2	46	48.0		
18-46-0	Great Falls	3-1151	18	18.6	46	48.0		
18-46-0	Fairfield	3-1090	18	18.5	46	47.1		
18-46-0	Power	3-1099	18	18.4	46	47.6		
21-14-0	Billings	3-379	21	26.0	14	15.1		
23-23-0	Laurel	3-353	23	23.1	23	23.3		
34-0-0	Laurel	3-354	34	34.3				
34-0-0	Billings	3-373	34	34.1				
34-0-0	Chinook	3-1081	34	34.0				
34-0-0	Fairfield	3-1089	34	34.6				
34-0-0	Power	3-1100	34	34.3				
34-0-0	Moore	3-1128	34	33.9				
34-0-0	Havre	3-1136	34	34.2				
34-0-0	Conrad	3-1141	34	33.9				
34-0-0	Fairfield	3-1149	34	33.7				
34-0-0	Great Falls	3-1152	34	34.1				
34-0-0	Moore	3-1206	34	34.6				
34-0-0	Belgrade	3-1196	34	35.0				
34-0-0	Fairfield	3-1329	34	34.0				
34-0-0	Belgrade	3-1348	34	34.6				
34-0-0	Great Falls	3-1002	34	34.4				
34-0-0	Great Falls	3-1003	34	34.9				
34-0-0	Roberts	3-37	34	39.9				
34-0-0	Great Falls	3-1101	34	34.8				

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FARMERS UNION CENTRAL EXCHANGE Box G St. Paul, Minnesota 55165								
Central Exchange								
0-60-0	Kinsey	3-72					60	61.8
0-60-0	Broadview	3-385					60	60.2
0-60-0	Harlem	3-389					60	60.1
0-60-0	Kinsey	3-253					60	60.4
0-60-0	Hysham	3-348					60	60.6
0-60-0	Townsand	3-1333					60	60.6
0-60-0	Glendive	3-343					60	60.8
0-60-0	Froid	3-213					60	60.8
0-60-0	Worden	3-217					60	61.2
0-60-0	Glendive	3-175					60	60.2
0-60-0	Missoula	3-1159					60	60.8
0-60-0	Billings	3-182					60	60.6
0-60-0	Ronan	3-1172					60	62.0
0-60-0	Hysham	3-45					60	61.0
0-60-0	Circle	3-146					60	61.0
0-45-0	Columbus	3-310			45	45.0		
0-45-0	Columbus	3-40			45	45.1		
0-45-0	Malta	3-270			45	46.5		
0-45-0	Harlem	3-387			45	45.6		
0-45-0	Hinsdale	3-393			45	45.0		
0-45-0	Circle	3-360			45	45.7		
0-45-0	Froid	3-357			45	46.2		
0-45-0	Richland	3-206			45	45.1		
0-45-0	Froid	3-212			45	46.7		
0-45-0	Fairview	3-195			45	46.4		
0-45-0	Billings	3-179			45	47.1		
0-45-0	Lambert	3-135			45	47.8		
0-45-0	Hinsdale	3-57			45	45.5		
0-45-0	Circle	3-143			45	46.6		
11-48-0	Broadview	3-383	11	11.3	48	48.2		
11-48-0	Richland	3-208	11	11.0	48	48.8		
11-48-0	Conrad	3-1178	11	11.1	48	48.6		
11-48-0	Chester	3-1086	11	11.1	48	48.9		
11-55-0	Fairview	3-192	11	11.2	48	56.2		
16-20-0	Columbus	3-312	16	16.2	20	20.8		
16-20-0	Columbus	3-39	16	16.5	20	20.3		
16-20-0	Townsend	3-1334	16	15.8	20	20.5		
16-20-0	Stevensville	3-1219	16	16.1	20	20.5		
16-20-0	Hardin	3-152	16	16.7	20	21.2		
16-20-0	Hinsdale	3-58	16	17.0	20	19.3		

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Farmers Union Central Exchange (cont.)								
18-46-0	Columbus	3-311	18	18.0	46	46.4		
18-46-0	Molt	3-381	18	18.3	46	46.6		
18-46-0	Columbus	3-42	18	18.2	46	46.4		
18-46-0	Kinsey	3-69	18	18.5	46	47.4		
18-46-0	Malta	3-273	18	18.8	46	47.2		
18-46-0	Broadview	3-382	18	18.5	46	46.0		
18-46-0	Harlin	3-388	18	18.5	46	46.2		
18-46-0	Malta	3-390	18	18.1	46	46.2		
18-46-0	Hinsdale	3-394	18	18.0	46	46.2		
18-46-0	Kinsey	3-251	18	18.9	46	46.7		
18-46-0	Froid	3-356	18	18.5	46	46.5		
18-46-0	Billings	3-363	18	18.6	46	45.9		
18-46-0	Hysham	3-346	18	18.4	46	46.2		
18-46-0	Townsend	3-1336	18	18.2	46	46.1		
18-46-0	Glendive	3-342	18	18.8	46	46.3		
18-46-0	Ronan	3-1346	18	18.3	46	46.5		
18-46-0	Lambert	3-256	18	18.7	46	47.0		
18-46-0	Froid	3-210	18	18.1	46	46.9		
18-46-0	Worden	3-215	18	18.2	46	46.7		
18-46-0	Hysham	3-188	18	18.8	46	46.0		
18-46-0	Dutton	3-1197	18	18.9	46	47.0		
18-46-0	Fairview	3-196	18	18.2	46	47.4		
18-46-0	Broadview	3-199	18	18.0	46	45.9		
18-46-0	Glendive	3-173	18	18.2	46	46.0		
18-46-0	Missoula	3-1158	18	18.8	46	48.5		
18-46-0	Valier	3-1177	18	18.9	46	47.5		
18-46-0	Conrad	3-1179	18	18.5	46	47.7		
18-46-0	Billings	3-178	18	18.2	46	46.3		
18-46-0	Ronan	3-1171	18	18.6	46	47.6		
18-46-0	Lambert	3-136	18	18.0	46	47.7		
18-46-0	Hysham	3-44	18	18.4	46	47.0		
18-46-0	Hinsdale	3-56	18	18.5	46	46.2		
18-46-0	Circle	3-145	18	18.6	46	47.7		
27-14-0	Columbus	3-308	27	26.7	14	15.9		
29-14-0	Hinsdale	3-396	29	27.6	14	16.2		
30-10-0	Columbus	3-38	30	31.3	10	10.1		
30-10-0	Malta	3-272	30	27.4	10	22.2		
30-10-0	Richland	3-207	30	30.1	10	9.9		
30-10-0	Malta	3-392	30	30.0	10	6.6		
21-0-0	Kinsey	3-71	21	21.0				

Deficient Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found
Farmers Union Central Exchange (cont.)						
21-0-0	Kinsey	3-254	21	21.4		
21-0-0	Hysham	3-347	21	21.0		
21-0-0	Glendive	3-344	21	21.0		
21-0-0	Worden	3-216	21	21.0		
21-0-0	Fairview	3-194	21	21.1		
21-0-0	Glendive	3-174	21	21.1		
21-0-0	Billings	3-181	21	21.6		
21-0-0	Kalispell	3-1162	21	21.6		
21-0-0	Hysham	3-43	21	21.4		
21-0-0	Hinsdale	3-59	21	21.2		
34-0-0	Columbus	3-309	34	34.6		
34-0-0	Columbus	3-41	34	34.3		
34-0-0	Kinsey	3-70	34	34.0		
34-0-0	Malta	3-271	34	34.8		
34-0-0	Broadview	3-384	34	34.5		
34-0-0	Harlem	3-386	34	34.1		
34-0-0	Malta	3-391	34	34.4		
34-0-0	Hinsdale	3-395	34	34.1		
34-0-0	Kinsey	3-252	34	34.1		
34-0-0	Circle	3-361	34	34.0		
34-0-0	Billings	3-364	34	34.1		
34-0-0	Hysham	3-345	34	34.5		
34-0-0	Townsend	3-1335	34	34.3		
34-0-0	Glendive	3-341	34	34.3		
34-0-0	Ronan	3-1347	34	34.4		
34-0-0	Lambert	3-257	34	34.1		
34-0-0	Stevensville	3-1218	34	34.1		
34-0-0	Richland	3-209	34	34.0		
34-0-0	Froid	3-211	34	34.2		
34-0-0	Worden	3-214	34	33.6		
34-0-0	Fairview	3-193	34	34.0		
34-0-0	Broadview	3-200	34	34.0		
34-0-0	Glendive	3-172	34	34.3		
34-0-0	Valier	3-1174	34	34.0		
34-0-0	Valier	3-1176	34	35.3		
34-0-0	Billings	3-180	34	34.8		
34-0-0	Kalispell	3-1161	34	34.2		
34-0-0	Lambert	3-134	34	34.0		
34-0-0	Hysham	3-46	34	34.0		
34-0-0	Hinsdale	3-55	34	34.1		
34-0-0	Circle	3-144	34	34.1		

Deficient Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
FARMER UNION OIL COMPANY Hysham, Montana 59038 (Bulk Fertilizer Plant) Not a registrant								
0-45-0	Hysham	3-189	0	2.4	45	37.9		
Blend	Hysham	3-2004	23	21.69	3.9	2.0	7.49	13.5
Blend	Hysham	3-2005	23	21.19	3.9	7.0	7.49	15.3
Blend	Hysham	3-2006	23	20.72	3.9	3.5	7.49	14.5
GLACIER NATURAL PRODUCTS & RESEARCH, INC. Box 569 Polson, Montana 59860								
Huma-Phos 1-2-2	Kalispell	3-1295	1	0.3	2	0.6	2	0.1
0-1-1	Kalispell	3-1296			1	0.8	1	0.5
HI-LINE FERTILIZER Hingham, Montana 59528								
10-33-0	Hingham	3-2011	10	10.3	33	34.0		
10-33-0	Hingham	3-2012	10	10.2	33	33.4		
INTERNATIONAL MINERALS IMC Plaza Libertyville, Illinois 60048								
IMC 18-46-0	Fairfield	3-1147	18	18.3	46	46.2		
KALLIAM CHIMICALS LIMITED 4 Executive Park Drive, N. E. Atlanta, Georgia 30329								
0-0-62.3	Pendroy	3-1233					62.3	62.8
0-0-60	Pendroy	3-1092					60	62.2
AMMONIUM PRODUCTS, INC. Box 418 South St. Paul, Minn. 55075								
Northern Brand 34-0-0	Sidney		34	34.1				

Deficient Beyond Tolerance - Underscored
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NAME AND ADDRESS OF MANUFACTURER BRAND AND ANME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
NORTHWEST NITRO-CHEMICAL SALES LTD P. O.Box 310 Medicine Hat, Alberta, Canada								
Northwest								
0-45-0	Glasgow	3-202			45	45.2		
11-48-0	Glasgow	3-213	11	11.3	48	48.5		
11-48-0	Belgrade	3-1192	11	11.1	48	49.7		
11-48-0	Geraldine	3-1040	11	11.0	48	48.0		
11-48-0	Carter	3-1338	11	11.0	48	48.0		
11-48-0	Sidney	3-303	11	11.2	48	48.0		
16-20-0	Laurel	3-218	16	16.0	20	20.6		
16-20-0	Hamilton	3-1216	16	16.3	20	19.9		
16-20-0	Hamilton	3-1154	16	16.1	20	20.1		
16-20-0	Dillon	3-1185	16	16.3	20	19.9		
16-20-0	Manhattan	3-1118	16	16.2	20	20.4		
18-46-0	Hamilton	3-1215	18	18.1	46	46.3		
18-46-0	Glasgow	3-214	18	18.0	46	46.6		
18-46-0	Shelby	3-1210	18	18.1	46	46.4		
18-46-0	Winifred	3-1199	18	18.0	46	46.9		
18-46-0	Billings	3-187	18	18.0	46	46.1		
18-46-0	Manhattan	3-1116	18	18.0	46	47.1		
18-46-0	Winifred	3-1046	18	18.2	46	46.6		
18-46-0	Geraldine	3-1039	18	18.0	46	46.2		
18-46-0	Moccasin	3-1050	18	18.1	46	46.8		
18-46-0	Deer Lodge	3-1108	18	18.0	46	46.7		
27-14-0	Laurel	3-219	27	27.4	14	16.2		
27-14-0	Winifred	3-1048	27	27.1	14	15.9		
27-14-0	Moccasin	3-1052	27	25.0	14	20.5		
29-14-0	Hamilton	3-1155	29	29.0	14	16.1		
29-14-0	Moccasin	3-1207	29	29.5	14	15.5		
29-14-0	Deer Lodge	3-1109	29	29.9	14	13.6		
34-0-0	Laurel	3-1220	34	33.9				
34-0-0	Clasgow	3-215	34	34.0				
34-0-0	Winifred	3-1188	34	34.0				
34-0-0	Ronan	3-1170	34	34.0				
34-0-0	Baker	3-105	34	34.4				
34-0-0	Lewistown	3-1044	34	34.8				
34-0-0	Geraldine	3-1038	34	34.0				
34-0-0	Lewistown	3-1201	34	34.1				

Deficient Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
PACIFIC SUPPLY COOPERATIVE P.O. Box 3588 Portland, Oregon 97208								
16-20-0	Kalispell	3-1342	16	16.0	20	20.9		
PHILLIPS PETROLEUM COMPANY Box 2123 Spokane, Washington 99201								
Phillips								
32-0-0	Belgrade	3-1187	32	31.2				
34-0-0	Highwood	3-1123	34	34.0				
POTASH COMPANY OF AMERICA American National Bank Building Suite 816 Denver, Colorado 80202								
0-0-60	Moore	3-1204					60	60.8
SELSTAD SOIL SERVICE Route 1 West Great Falls, Montana 59401								
10-33-0	Belgrade	3-1188	10	10.2	33	32.9		
10-33-0	Great Falls	3-2007	10	9.6	33	33.0		
32-0-0	Great Falls	3-2008	32	30.2				
SHERRITT FERTILIZERS, INC. 103 Cascade Plaza 2828 S. W. Corbett Avenue Portland, Oregon 97201								
Sherritt								
11-48-0	Winifred	3-1047	11	11.5	48	48.6		
18-46-0	Valier	3-1173	18	18.8	46	47.7		
18-46-0	Stanford	3-1208	18	18.1	46	46.1		
18-46-0	Stanford	3-1127	18	18.0	46	46.9		
18-46-0	Chester	3-1087	18	18.3	46	47.7		
18-46-0	Cut Bank	3-1088	18	18.0	46	47.3		
18-46-0	Cut Bank	3-1362	18	18.1	46	46.0		
18-46-0	Valier	3-1363	18	18.2	46	46.0		
18-46-0	Valier	3-1364	18	18.2	46	46.2		

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NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN Claimed	TOTAL NITROGEN Found	AVAILABLE PHOSPHORIC ACID (P_2O_5) Claimed	AVAILABLE PHOSPHORIC ACID (P_2O_5) Found	SOLUBLE POTASH (K_2O) Claimed	SOLUBLE POTASH (K_2O) Found
J. R. SIMPLOT COMPANY Minerals and Chemicals Division P. O. Box 912 Pocatello, Idaho 83201								
Simplot								
0-0-60	Belgrade	3-1190					60	61.0
0-45-0	Chinook	3-1079			45	45.1		
0-45-0	Chester	3-1085			45	46.8		
0-45-0	Pendroy	3-1096			45	46.0		
0-45-0	Dillon	3-1110			45	46.2		
0-45-0	Ronan	3-1075			45	45.8		
0-45-0	Great Falls	3-1000			45	45.8		
0-45-0	Roberts	3-34			45	46.0		
0-45-0	Hardin	3-148			45	46.1		
0-45-0	Havre	3-1139			45	46.6		
0-45-0	Billings	3-183			45	46.6		
0-45-0	Dillon	3-1184			45	46.4		
0-45-0	Valier	3-1175			45	47.1		
0-45-0	Glendive	3-377			45	45.2		
0-45-0	Billings	3-367			45	45.6		
11-48-0	Baker	3-2009	11	11.8	48	48.4		
16-20-0	Billings	3-368	16	16.4	20	20.5		
16-20-0	Missoula	3-1156	16	16.1	20	18.6		
16-20-0	Billings	3-184	16	16.6	20	19.7		
16-20-0	Pendroy	3-1095	16	16.0	20	20.0		
16-20-0	Dillon	3-1114	16	16.6	20	19.5		
18-46-0	Billings	3-370	18	17.8	46	46.1		
18-46-0	Lewistown	3-1356	18	18.4	46	46.2		
18-46-0	Havre	3-1359	18	18.0	46	46.1		
18-46-0	Glendive	3-338	18	18.1	46	46.0		
18-46-0	Pendroy	3-1361	18	17.9	46	46.0		
18-46-0	Belgrade	3-1191	18	18.6	46	46.0		
18-46-0	Havre	3-1137	18	18.3	46	46.4		
18-46-0	Kalispell	3-1067	18	18.1	46	47.8		
18-46-0	Belgrade	3-1121	18	18.7	46	47.6		
18-46-0	Belgrade	3-1122	18	18.8	46	47.4		
30-10-0	Billings	3-372	30	19.8	10	12.0		
21-0-0	Billings	3-371	21	20.4	0	0.5		
21-0-0	Billings	3-185	21	21.4				
21-0-0	Billings	3-1115	21	21.9				
34-0-0	Belgrade	3-1370	34	34.6				

Deficient Beyond Tolerance - Underscored
Not Registered - *

NAME AND ADDRESS OF MANUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
J. R. Simplot Company (cont.)								
34-0-0	Billings	3-369	34	33.9				
34-0-0	Wolf Point	3-359	34	34.4				
34-0-0	Billings	3-186	34	34.3				
34-0-0	Stanford	3-1126	34	33.9				
34-0-0	Great Falls	3-1153	34	34.0				
34-0-0	Lewistown	3-1041	34	34.1				
34-0-0	Moccasin	3-1051	34	34.2				
34-0-0	Belgrade	3-1189	34	35.2				
STAUFFER CHEMICAL COMPANY 636 California Street San Francisco, California 94119								
Stauffer 0-45-0	Chinook	3-1078			45	45.0		
16-20-0	Chinook	3-1080	16	15.5	20	22.3		
16-20-0	Chinook	3-1209	16	16.8	20	21.1		
TAYLOR SOIL SERVICE Box 810 Shelby, Montana 59474								
0-58-0	Cut Bank	3-1458			58	57.8		
USS AGRI CHEMICALS 10 E. South Temple - Room 1224 Salt Lake City, Utah 84111								
Vertia Green Power Pills 15-40-5	Sidney	3-305	15	15.6	40	40.0	5	5.0
USS 23-23-0	Sidney	3-138	23	23.0	23	23.5		
WANG FEEDS Baker Montana 59313								
Wang Blend	Baker	3-332	8.2	8.5	40.5	40.8	15.3	15.6
Blend	Baker	3-331	17.2	17.4	40.1	40.3		
WESTERN CO-OPERATIVE FERTILIZERS LTD. Box 110 Medicine Hat, Alberta, Canada								
Northwest 0-46-0	Glasgow	3-399			46	45.1		

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NAME AND ADDRESS OF NAMUFACTURER BRAND AND NAME OF PRODUCT	PLACE OF COLLECTION	SAMPLE NUMBER	TOTAL NITROGEN		AVAILABLE PHOSPHORIC ACID (P_2O_5)		SOLUBLE POTASH (K_2O)	
			Claimed	Found	Claimed	Found	Claimed	Found
Western Co-operative Fertilizers Ltd. (cont.)								
11-48-0	Sidney	3-307	11	11.3	48	47.3		
11-48-0	Wibaux	3-333	11	11.0	48	48.3		
11-48-0	Cut Bank	3-1320	11	11.0	48	48.0		
11-55-0	Glasgow	3-397	11	11.0	55	56.0		
18-46-0	Wibaux	3-334	18	18.0	46	46.3		
18-46-0	Cut Bank	3-1321	18	17.9	46	46.5		
18-46-0	Cut Bank	3-1323	18	18.4	46	46.5		
34-0-0	Cut Bank	3-1322	34	34.0				
34-0-0	Stanford	3-1341	34	34.7				
34-0-0	Glasgow	3-398	34	34.1				
34-0-0	Chester	3-1317	34	34.1				
34-0-0	Lewistown	3-314	34	34.6				
34-0-0	Wolf Point	3-358	34	34.9				
34-0-0	Pendroy	3-1093	34	34.0				
WESTERN MONTANA COOPERATIVE OIL COMPANY 400 West Main Missoula, Montana 59801								
34-0-0	Valier	3-1098	34	34.7				
WOLF KILL COMPANY Everett, Washington 98201								
26-14-0	Belgrade	3-1372	26	26.3	14	14.9		
WYCON CHEMICAL COMPANY P. O. Box 1087 Colorado Springs, Colorado 80901								
Wycon								
33.5-0-0	Bridger	3-164	33.5	33.0				
34-0-0	Missoula	3-1157	34	34.5				
GLACIER NATURAL PRODUCTS & RESEARCH, INC. Box 569 Polson, Montana 59860		MICRONUTRIENT ANALYSES						
Huma-Phos	Kalispell	3-1296	Total P_2O_5		14	14.4		
			Iron		.16	0.79		
			Calcium		13	17.3		
			Zinc		.09	.011		
Huma-Phos	Kalispell	3-1295	Total P_2O_5		13	16.3		

Deficient Beyond Tolerance - Underscored
Not Registered - *

MONTANA DEPARTMENT OF AGRICULTURE

Feed and Fertilizer Division

SUMMARY OF FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA

1973

MATERIALS	Jan-June (tons)	July-Dec (tons)	Total (tons)
1. Anhydrous Ammonia (82-0-0)	1,202	986	2,188
2. Ammonium Nitrate	56,865	22,532	79,397
3. Ammonium Sulfate (21-0-0)	4,845	6,070	10,915
4. Urea		159	159
5. Nitrogen Solutions (Aqua Ammonia, Urea Solutions and Urea, Ammonia Nitrate Solutions)	2,213	1,425	3,638
6. Superphosphate (0-45-0, 0-46-0)	5,156	6,095	11,251
7. Phosphoric Acid	495	463	958
8. Gypsum, Lime and Sulphur	259	272	531
9. Potash	3,545	2,172	5,717
10. Micro Nutrient Materials	71	1	72
AMMONIATED PHOSPHATES AND MIXTURES			
11. 18-46-0	38,880	33,679	72,559
12. 16-20-0	12,405	8,869	21,274
13. 11-48-0	9,099	6,907	16,006
14. 11-55-0	6,799	13,326	20,125
15. 27-14-0	2,804	784	3,588
16. 27-12-0, 29-14-0, 28-14-0	6,755	1,799	8,554
17. 1-1-0 ratios such as 23-23-0	1,579	270	1,849
18. 1-1-1 ratios such as 16-16-16	219	150	369
19. Miscellaneous farm grades	366	552	918
20. Miscellaneous specialty grades	1,640	380	2,020
21. Liquid Mixtures	521	5,452	5,973
TOTAL, All Fertilizers and Materials	155,718	112,343	268,061
TOTAL NITROGEN	36,089	21,227	57,316
TOTAL P_2O_5	33,214	33,338	66,552
TOTAL K_2O	2,247	1,373	3,620

FERTILIZER BY GRADES USED IN PREPARING CUSTOMER FORMULA BLENDS

(Included in first page)

MATERIAL	Jan-June (tons)	July-Dec (tons)	Total (tons)
1. Ammonium Nitrate	25,918	16,839	42,757
2. Ammonium Sulfate (21-0-0)	2,199	2,327	4,526
3. Nitrogen Solutions	225	106	331
4. Superphosphates (0-45-0 0-46-0)	2,670	2,670	5,340
5. Potash	2,537	3,169	5,706
6. Sulfur	19	9	28
7. Micro Nutrient Materials	88	12	100
8. Gypsum		81	81
AMMONIUM PHOSPHATES AND DRY MIXTURES			
9. 18-46-0	15,933	14,533	30,466
10. 16-20-0	1,246	2,030	3,276
11. 11-48-0	978	386	1,364
12. 11-55-0	1,036	2,237	3,273
13. 27-14-0 and 28-14-0			
14. Liquid Mixtures	1,038	3,762	4,800
15. Miscellaneous or not reported as to grade	1,521		1,521
TOTAL FERTILIZER MATERIALS USED IN BLENDING	55,408	48,161	103,569

Feed and Fertilizer Division
McCall Hall, M.S.U.
Bozeman, Montana 59715